U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

AUGUST 20,1984.

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

MANUFACTURER'S NAME		SECTION I		:
Dexter Corporation, Hysol Division	* .	EMERGENCY TELEPHO	DAIE NIC	
ADDRESS (III	ID Co. 1	//17	714E 14C	,.
CHEMICAL MAN 312	Pittsburg C:	alifornia 04505		
INCIPART POLYNMINE/ALTROSS	C CUDED E	POXY CYCTEM TRADE NAME AND SYNONYMS		
CHEMICAL FAMILY	C CORED E	PUXY SYSTEM EA 956 Part A		
Epoxy Resins		T SAMULA	· · · · · · · · · · · · · · · · · · ·	
SECTI	ON 11			
PAINTS PRESERVATIVE	ON II - HA	AZARDOUS INGREDIENTS		
PAINTS, PRESERVATIVES, & SOLVENTS	%			
PIGMENTS		None of the ingredients in		
CATALYST		this product		
VEHICLE FROM D.		this product are listed in		
LPOXY RESINS	100	29 CFT 1910 or in "The		
SOLVENTS		Directors List of Hazardous		
ADDITIVES		Substances for an		
OTHERS		Substances" from CAL/OSHA.		
	.			
HAZARDOUS M.XTUF	ES OF OTHER	R LIQUIDS, SOLIDS, OR GASES	· ·	
	TO G. GIAE!	LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
				1-111627
SE	CTION III	- PHYSICAL DATA		
TENIG POINT (FE)		- PHYSICAL DATA		
Decomposes haf		ng SPEC FIC GRAVITY (H2O=1)		
POR PRESSURE (mm Hg.)		ng SPEC FIC GRAVITY (H ₂ O=1)		25
POR DENSITY (AIR=1)	ore boili N/A	ng SPEC FIC GRAVITY (H ₂ O=1) P: RCENT, VOLATILE BY VOLUME (%)	1. N/	25
POR PRESSURE (mm Hg.)	ore boili N/A N/A	Pr QCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (N/	25 A
PEARANCE AND COMPOSES Def	ore boili N/A N/A Neglig b	ng SPEC FIC GRAVITY (H ₂ O=1) P: RCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (25 A
PEARANCE AND COMPOSES Def	ore boili N/A N/A Neglig b	ng SPEC FIC GRAVITY (H ₂ O=1) P: RCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (N/	25 A
PEARANCE AND ODOR Decomposes bef Decomposes	N/A N/A Neglic b	nq SPEC FIC GRAVITY (H20=1) P: RCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (N	25 A
PEARANCE AND ODOR Decomposes bef Decomposes	N/A N/A Neglic b	nq SPEC FIC GRAVITY (H20=1) P: RCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (N N	25 A
PEARANCE AND ODOR Ambel Tique SECTION IV -	N/A N/A Neglig b uid with	Precedent, Volatile By Volume (%) EVAPORATION RATE (N	25 A
PEARANCE AND ODOR Ambe; Tique SECTION IV - TINGUISHING MEDIA Decomposes bef Decomposes bef	N/A N/A Neglig b uid with	PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (= 1) Slight odor EXPLOSION HAZARD DATA FLAMMABLE LIMPS Lei	N N	25 A
PEARANCE AND ODOR Ambe; Tique SECTION IV - TINGUISHING MEDIA Decomposes bef Decomposes bef	N/A N/A Neglig b uid with	PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (= 1) Slight odor EXPLOSION HAZARD DATA FLAMMABLE LIMPS Lei	N N	25 A A
PEARANCE AND ODOR Ambei Tique SECTION IV - SH POINT (Method used) PARTICLE FIGHTING PROCEDURES	N/A N/A Negligib uid with FIRE AND	PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (=1) Slight odor EXPLOSION HAZARD DATA FLAMMABLE LIMPS Lei Demicals, CO2, Water Sport Live	N/	25 A A
PEARANCE AND ODOR Ambei Tique SECTION IV - SH POINT (Method used) PARTICLE FIGHTING PROCEDURES	N/A N/A Negligib uid with FIRE AND	PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (=1) Slight odor EXPLOSION HAZARD DATA FLAMMABLE LIMPS Lei Demicals, CO2, Water Sport Live	N/	25 A A
POR PRESSURE (mm Hg.) POR DENSITY (AIR=1) LUBILITY IN WATER PEARANCE AND ODOR Ambei Tiqu SECTION IV - SH POINT (Method used) > 272° TO INGUISHING MEDIA Chemical Foa CIAL FIRE FIGHTING PROCEDURES Wear self-contained breath SUAL FIRE AND EXPLOSION HAZARDS	N/A N/A Negligib uid with FIRE AND CC m, Dry Ch	PERCENT, VOLATILE BY VOLUME (%) EVAPORATION RATE (= 1) Slight odor EXPLOSION HAZARD DATA FLAMMABLE LIMPS Lei	N/	25 A A

SECTION V - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE Not established.
Not established.
MAY CAUCA CHARLES
May cause skin irritation and possible allergic reactions. Prolonged and repeated
Contact may cause consisting the second seco
Contact may cause sensitization which will result in allergic reactions.
Flush skin and eve contact with planty of the
Flush skin and eye contact with plenty of water. Wash skin thoroughly with soap
and water, rubbing alcohol or hand cleaner. Do not use solvents. Remove soiled
clothing and wash before soiled
clothing and wash before reuse. If irritation persists or increases, see physician

	,		SECTIO	NVI - R	EACTIVITY DATA	
STABILITY	UNSTABLE			CONDITIONS TO AVOID		
	STA				- TO AVOID	
INCOMPATABILI	i i		Х			
		•	Strong	oxidizi	ng agents, strong Lewis or mineral acids.	
HAZARDOUS DE	COMPOSI	TION PRODUC	TS CO.	NOv al	dehydes seide selle de miller al acids.	
H07000					dehydes, acids and undetermined organics.	
HAZARDOUS POLYMERIZATIO	N	MAY OCCUR		X	Avoid mixing resin and curing agent in	
Do not i		WILL NOT O			batches greaten than	
Othorwise	t mixe	d adhesiv	e above	75°F u	in long and the control of the contr	
conerwise,	exces	sive heat	build-u	up and t	the release of toxic gasses may occur.	
		SECTI	ON VII .	SPILL	OR LEAK PROCEDURES	
STEPS TO BE TAK	EN IN C	000 110				
Wear protective clothing, gloves and safety glasses. Cover with absorbent						
material, then Scrape up and transfer to metal container. Wipe up remaining						
residue wit	h solv	ents obs	anvina	20711011	Gi wife up remaining	
WASTE DISPOSAL	METHO	ones, obse	erving:	sorvent	flammability cautions, or use detergent.	
913p036 01 6	as naz	ardous was	ste acco	ording t	O D.O.T. hazard class If not manual t	
Dispose of as hazardous waste according to D.O.T. hazard class. If not regulated by D.O.T., dispose of as ORM-E. Disposal method can be land burial or chemical						
incineration as regulated by all governmental agencies.						
		- garacea. L	y all c	overnile	ntal agencies.	

DECO	SECTION VIII - SPECIAL PROTEC	CTION INFORMATION
	Not required with	good industrial ventilation.
VENTILATON	Recommended	SPECIAL SPECIAL
PROTECTIVE	MECHANICAL (General) Recommended	OTHER
PROTECTIVE GLO IMPORVI OTHER PROTECT	OUS plastic or hibber EYE PR	Safety glasses or goggles
	As needed to protect skir	n and crothing

RECAUTIONS	SECTION IX - SPECIAL PRECAUTIONS TO BE TALL OF IN HANDLING AND STORING	
THEO DO	Keep product cool in accordance with label instructions.	
THER PREC	Follow recommended curing schedule.	

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U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form No. 44.

MATERIAL SAFETY DATA

Shipbuilding	, and Shipbreal	Health Regulations for sing (29 CFR 1915, 19	r Ship Repairir 916, 1917)	g,	,
MANUFACTURER'S NAME		TION			
Dexter Corporation, Hysol Division			EMERGENCY	TELEPHONE N	0.
ADDRESS (Number, Street, City, State, and ZIP Code) 2850 Willow Pass Road (P.O. Rev. 210)					
	respury, Califo		IAME AND SYNC) NIVAGE	
Aromatic Amine Curing	Agent	FORMULA	iame and synd Curing Agei	it L-3	
SECTIO	NII - INGR	EDIENTS			
	%				
Methylene Dianiline (MDA)	33)	
Diaminoanisole	33				
Phenylene Diamine	33			I .	/
				į	
(above ± 5%)					
HAZARDOUS MIXTURE	S OF OTHER L	QUIDS, SOLIDS, OR GA	ACEC	,	TLV
D.O.T. Requirements: Poison	B. NOS	/Diamin	1000	9	(Units
MDA CAS#101-77-9: Phenylene [Diamine CAS	#108_45_2)		
-		<u> </u>			
					<u> </u>
OILING POINT (°F.)	CTION III - I	PHYSICAL DATA			
APOR PRESSURE (rem Hg.)		SPECIFIC GRAVITY	H ₂ O=1)		
		PERCENT, VOLATILE BY VOLUME (%)			
APOR DENSITY (AIH=1)		EVAPORATION RATE			
DLUBILITY IN WATER	Partially				
PPEARANCE AND ODOR Reddish bla		th slight dor			
SECTION IV	FIRE AND	Wal Och	•		
ASH POINT (Method used) 200°F TC	- ITE AND	XPLOSION HAZA	RD DATA		
KTINGUISHING MEDIA		FLAMMABLE LIM		Lei	Uel
Water spray ECIA_FIRE FIGHTING PROCEDURES Gar Self-contained breathing	or tog, for apparatus	CO ₂ , di, che	emical exti	nguishers.	:
		med righting fi	res in con	fined loca	tions.
NUSUAL FIRE AND EXPLOSION MAZARDS					
oxic gasses may be generated.					

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(Continued on reverse side)

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SECTION V - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE
*HIGH HEALTH HAZARD - NIOSH toxic rating 3; ANSI class 6
EFFECTS OF OVEREXPOSURE
delayed or repeated contact of liquid or breathing of vapors or mists may cause delayed or serious injury to the liver and spleen (toxic hepatitis). Is a cancer suspect agent. Product is reisonable.
EMERGENCY AND FIRST AID PROCEDURES
If contact occurs, remove contaminated clothing and immediately wash skin with
soap and water. In case of eye contact, flush eyes with plenty of water for at
To describe the state of the st
least 15 minutes and get medical attention. Ingestion - induce vomiting
*TLV for MDA = 0.1 ppm(skin) Dro(rat) = 347 mg/kg. TD / ranks 0.0 mg/kg.

			SECTIO	N VI - F	REACTIVITY DATA		
STABILITY UNSTABLE STABLE				CONDITIONS TO AVOID			
			X				
INCOMPATABIL		•	Strong	oxidizi	ng agents, strong Lewis or mineral acids.		
HAZARDOUS DE	СОМРО	SITION PRODUC			dehydes, acids and undetermined organics.		
POLYMERIZATION		MAY OCCUR		Х	Do not mix with resins in duanities greater		
		WILL NOT O	OCCUR		than one pound or excessive and irreversib		
					heat build-up may occur.		

SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Wear protective clothing, gloves and safety glasses. Cover with absorbent
material, then Scrape up and transfer to metal container. Flush remaining
residue with water.
WASTE DISPOSAL METHOD Dispose of as hazardous waste according to D.O.T. hazard class. If not regulated
by 0.0.1., dispose of as ORM-E. Disposal method can be land burial or chemical
incineration as regulated by all governmental agencies.

	SECTION VIII - SPECIAL	PROTECTION INFORMATION
Supplied	otection (Specify type) air line or self-contained	when working in confined areas.
VENTILATION	Recommended	SPECIAL SPECIAL
	MECHANICAL (General) Recommend	ед отнея
PROTECTIVE GLOV Impervio	ves Dus plastic or rubber	Safety glasses or goggles
OTHER PROTECTIV	ve equipment As needed to proti	ect skin and clothing

			SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO	BE TA	KEN IN FI	ANDLING AND STORING	
OTUES OF	Keep	produc	cool in accordance with label instructions.	
OTHER PRECAUTION	ONS		recommended curing schedule.	
<u>. </u>				

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